

arc tube are so positioned as to not be aligned with the minute tubes of the arc tube.

23. A self-ballasted fluorescent lamp as claimed in claim 21 or claim 22, wherein the outer diameter of the circuit board is nearly identical to the inner diameter of the cover.

24. A self-ballasted fluorescent lamp as claimed in any one of the claims from claim 21 to claim 23, wherein the electrical components mounted on the side facing the arc tube are positioned apart from the electrodes of the arc tube.

25. A luminaire including a self-ballasted fluorescent lamp as claimed in any one of the claims from claim 8 to claim 24.

ABSTRACT

A compact self-ballasted fluorescent lamp (10) which is equivalent to a typical light bulb is provided.

The self-ballasted fluorescent lamp (10) includes a cover (14), a lighting circuit (16), an arc tube (18), a base (12) and a globe (17) and formed into a shape whose outline dimensions are nearly identical to the standard dimensions of a typical light bulb. The arc tube (18) is comprised of a plurality of U-shaped bent bulbs (31) which have an inner tube diameter ranging from 6 to 9 mm and arranged in parallel with one another. Having a bulb height ranging from 50 to 60 mm and a discharge path from 200 to 300 mm long, the arc tube (18) is designed such that the total luminous flux is not less than 700 lm with a lamp efficiency of not less than 60 lm/W when the lamp is lit at the lamp power of 7 to 15 W. An envelope (19) comprising the cover (14) and the globe (17) has a height ranging from 110 to 125 mm, including the height of the base (12).